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Please forward sealed!		Already faxed to ZT PA <input type="checkbox"/> <i>Please be sure to indicate if applicable!</i>	99 E 3506
I/We (first name and last name of inventor(s) - further details and signature(s) on last page) Erich Günther		Number of inventors 1	Date of execution: 16.5.99
give notice herewith of the invention specified in full on the following pages with the title: Image originals for facilitating the projecting of operator control and monitoring apparatuses			
I.	To superior of inventor(s) Mr./Mrs./Ms. <u>D. Dickerboom</u> A&D PT1 D1 (Department) Please answer the following questions: a) When did you receive the notification of invention? _____ → b) Is the invention based on publicly funded work? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes, project: _____ c) Is there a corresponding in-house R&D project? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, project: <u>ProTool</u>		Received on: 18.5.99 Legal term commences with date of receipt!
Only for ZT-inventions: Project No. _____ Title: _____ Core technology: _____ <div style="display:flex;"> <div style="margin-right: 20px;"> <input type="checkbox"/> Development project <input type="checkbox"/> Research project </div> <div>in the interest of division: _____ Contact person: _____</div> </div>			
d) Application recommended <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		Urgency note	
Costs to be borne by (organizational unit): _____ <input type="checkbox"/> The invention does not lie in our field of interest. The following departments are to be consulted: _____			
26.5.99 [Dickerboom] <small>(Date) (Signature of superior)</small>			
II.	Please forward immediately on account of legal deadlines to Siemens AG ZT PA (Patent department) Location: _____ (e.g.: Mch/M, Erl/S, Bln/N, Khe/R, Pdb) for further action.		Received on: ZT GG VE 1 June 1999

...problem is solved by your invention:

In the context of projecting operator control and monitoring apparatuses, a requirement that is frequently imposed is that specific displays or functions be made available in all of the images. By way of example, the intention is to be able to call up a function "Indicate the starting image" in every image or to display a process value such as "Temperature" in a field. Nevertheless, it should be possible to be able to deviate from this specification in certain images.

2. How has this problem been solved up to now?

To date, this has been taken into account in that:

- 1) Each image has been divided into two regions, of which one (the so-called permanent image) has been identical in all of the images. Fields placed in this region have been visible in all of the images.
- 2) For function keys (if present on the apparatus) it has been possible to project a global allocation with functions. If nothing else was projected for a key in an image, this global allocation was used. The globally projected function was thus available in all of the images. This strategy fails, of course, in the case of apparatuses which do not have any keys.

3. In what manner does your invention solve the technical problem indicated (show advantages)?

The use of originals means that it is possible to use a uniform mechanism which is identical for keys and for fields. Even in the case of apparatuses without any keys, it is possible to project functions for all of the images in the original.

4. What is the inventive step?

Instead of the previous permanent image, an original image is defined, on which the images of a project are based; in other words, each image automatically contains, as preallocation, all of the fields and function key allocations of the original image.

All elements of the
original are present
in each image

Figure 1 Original

All elements of the original are present in each image, but can be cut out

Figure 2 Image based on original

The original elements can be individually blanked out in an image. As in the case of the permanent image, the connection to the original image is "live"; in other words, if an original element is changed, then the change is taken over in all of the images based on it.

In order to be able not only to blank image elements out of the original but also to make them visible again, it must be possible to make blanked-out elements visible as well. The user can choose whether to display only the elements associated with this image or only the original elements or both (taking account of blanked-out elements, that is to say the view as the elements appear on the apparatus). If only the original is displayed, the original elements can be edited, otherwise they cannot.

5. Exemplary embodiment(s) of the invention.

6. The following are enclosed for further explanation:

_____ sheet(s), representation of one or more exemplary embodiments of the invention;
(if possible, produce drawings in the PowerPoint or Designer format)

_____ sheet(s), additional description (e.g. laboratory reports, test records);

_____ sheet(s), literature describing the background art on which the invention is based *);

_____ other documentation (e.g. floppy disks, particularly with drawings of the exemplary embodiments):

*) Please enclose photocopies or special reprints of all cited publications (papers in full; relevant chapter of books) with complete bibliographic data.

8. Has the invention already been tested (tests performed, models constructed)?

☐ No ☐ Yes, result: _____

9. For which products can the invention be used?

Editors for operator interfaces

10. Is use of the invention intended?

☐ No ☐ Yes, in: ProTool CS

11. Has a product based on the invention been delivered or is delivery intended?

☒ No ☐ Yes, (probably) on _____ ; name of product: _____

12. Has the invention been published or is publication intended?

☒ No ☐ Yes, (probably) on _____ in book, journal: _____

13. Have third parties been notified of the invention or is such notification intended?

☐ No ☒ Yes, (probably) on _____ to Resotec

14. Please give as far as possible an assessment of the following criteria:

a Difficulty of circumvention for competitors

Alternative solutions

- ☐ practically not realizable
☒ require effort and/or expenditure
☐ realizable without problems

b Attractiveness for competitors

Competitor interest

- ☐ high
☒ average
☐ low

c Proof of use by competitors

Proof of use

- ☐ possible without problems
☐ difficult
☐ practically impossible

u In-house use

- ☐ (probably) yes
☒ open
☐ improbable

15. Details on person of inventor(s) (Enter inventors 1 to 4 here. For further inventors please use additional sheet):

Name	Günther			
Last name				
First name	Erich			
APD/Personnel No. *)	531/R01374			
Is this your first notification of invention to ZT PA?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Degree/title/profession	Dipl. Inf			
At time of invention: student/postgraduate student	Yes <input type="checkbox"/> please enclose contract	Yes <input type="checkbox"/> please enclose contract	Yes <input type="checkbox"/> please enclose contract	Yes <input type="checkbox"/> please enclose contract
Post/position in company (e.g. laboratory supervisor)				
Employer if not Siemens AG				
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Zip/Postal code, Town	91074 Herzogenaurach			
Date of birth	18.9.61			
16. Is the invention a) in your field of work? b) in another field of work of your employer?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
17. What is your share of the invention in percent?	%	%	%	%
18. Invention submitted for improvement award scheme?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
19. If you are of the opinion that employer has no claim to invention, please substantiate:				
20. To the best of my/our knowledge no further persons participated in invention.				
	(Signature)	(Signature)	(Signature)	(Signature)

*) Please see company identity card or pay slip.